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10.-%  
201.816666666\*  
201.81666666+  
2,219.93333332\*

ANGIE

**PRETREATMENT MONITORING REPORT**



NAME: Crompton Colors Incorporated

MAILING ADDRESS: 199 Benson Road, Mail Stop 2-4, Middlebury CT 06749-0001

FACILITY LOCATION: 52 Amsterdam Street, Newark NJ

CATEGORY & SUBPART: Unknown OUTLET #: 1

CONTACT OFFICIAL: Mr. George Collentine TELEPHONE: (203) 573-2825

NEW CUSTOMER ID / OUTLET ID: 20630008-1 OLD OUTLET DESIGNATION: 1

| MONITORING PERIOD |     |    |     |     |    |
|-------------------|-----|----|-----|-----|----|
| Start             |     |    | End |     |    |
| 09                | 01  | 08 | 09  | 30  | 08 |
| MO                | DAY | YR | MO  | DAY | YR |

|                        | Average         | Maximum         |
|------------------------|-----------------|-----------------|
| Regulated Flow-gal/day | 2153            | 2154            |
| Total Flow-gal/day     | <del>2153</del> | <del>2154</del> |
|                        | 2018            | 2220            |

Method Used: Electromagnetic flowmeter (Toshiba Model #GF632) and remote converter/display (Toshiba Model #LF602F)

Begin meter reading on 9/3/08 @ 12:40 PM. End meter reading at 10/1/08 @ 3:30 PM.

Production Rate (if applicable) Not Applicable

| PARAMETER                             |                    | MASS OR CONCENTRATION |                    |       | # OF SAMPLES | SAMPLE TYPE<br>COMP/GRAB |
|---------------------------------------|--------------------|-----------------------|--------------------|-------|--------------|--------------------------|
|                                       |                    | MON AVG               | MAXIMUM            | UNITS |              |                          |
| Biochemical Ox<br>(BOD <sub>5</sub> ) | Sample Measurement | 66.1                  | 66.1               | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 0 (No Limit)          |                    |       |              |                          |
| Cadmium                               | Sample Measurement | < 0.0004              | < 0.0004           | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 0.19                  |                    | mg/l  |              |                          |
| Copper                                | Sample Measurement | < 0.004               | < 0.004            | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 3.02                  |                    | mg/l  |              |                          |
| Lead                                  | Sample Measurement | < 0.003               | < 0.003            | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 0.54                  |                    | mg/l  |              |                          |
| Mercury                               | Sample Measurement | < 0.0001              | < 0.0001           | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 0.080                 |                    | mg/l  |              |                          |
| Nickel                                | Sample Measurement | < 0.002               | < 0.002            | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 5.9                   |                    | mg/l  |              |                          |
| Zinc                                  | Sample Measurement | 0.03                  | 0.03               | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 1.67                  |                    | mg/l  |              |                          |
| Non-Polar<br>Material                 | Sample Measurement | < 10                  | < 10               | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement |                       | 100                | mg/l  |              |                          |
| Total Toxic<br>Organics               | Sample Measurement | CO <sub>2</sub> =E    | CO <sub>2</sub> =E | mg/l  | 1            | Grab                     |
|                                       | Permit Requirement | 0 (No Limit)          |                    |       |              |                          |
|                                       | Sample Measurement |                       |                    |       |              |                          |
|                                       | Permit Requirement |                       |                    |       |              |                          |
|                                       | Sample Measurement |                       |                    |       |              |                          |
|                                       | Permit Requirement |                       |                    |       |              |                          |
|                                       | Sample Measurement |                       |                    |       |              |                          |
|                                       | Permit Requirement |                       |                    |       |              |                          |
|                                       | Sample Measurement |                       |                    |       |              |                          |
|                                       | Permit Requirement |                       |                    |       |              |                          |
|                                       | Sample Measurement |                       |                    |       |              |                          |
|                                       | Permit Requirement |                       |                    |       |              |                          |

PVSC FORM MR-I REV: 4 6/87 P I



**PRETREATMENT MONITORING REPORT**

**Certification** of Non-Use if applicable (use additional sheets): Not Applicable.

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every

parameter used: All reported analytical results comply with permit requirements

Explain Method for preserving samples: Samples were collected in laboratory-supplied containers with the appropriate preservatives (e.g., hydrochloric acid, nitric acid) in accordance with the requirements for the specific analytical methods. Samples were labeled with appropriate information, such as project name, sample identification, collection date and time, and sampler's initials. All containers were placed in an ice-filled cooler until delivery at the laboratory. A completed chain-of-custody form accompanied the samples at all times.

I certify under penalty of law that this document and attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

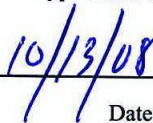
403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

  
\_\_\_\_\_  
Signature of Principal  
Executive or Authorized Agent

Mr. George Collentine

\_\_\_\_\_  
Manager

Type Name and Title

  
\_\_\_\_\_  
Date



Environmental  
Resources  
Management

Princeton Crossroads Corp.  
Center  
250 Phillips Blvd., Ste. 280  
Ewing, NJ 08618  
(609) 895-0050  
(609) 895-0111 (fax)  
<http://www.erm.com>



20 October 2008

Ms. Saramma John  
City of Newark Billing & Customer Service  
920 Broad Street  
Room 115 - Water Accounting  
Newark, NJ 07102

RE: September 2008 Monitoring Reports  
Crompton Colors, Incorporated - Newark, NJ  
Customer ID 20630008-1  
Discharge Begun 17 July 2007

Dear Ms. John:

On behalf of Chemtura Corporation (Chemtura), Environmental Resources Management (ERM) has prepared the attached User Charge Self Monitoring Report (PVSC Form MR-2). This form has been executed by Mr. George Collentine of Chemtura Corporation, the corporate successor to Crompton.

The groundwater recovery system has been in continuous operation since 23 April 2008. The total volume discharged to the sanitary sewer during the month of September was calculated as follows:

- Starting totalizer reading = 259,813 gallons (12:40 PM on 9/3/08)
- Final totalizer reading = 320,358 gallons (3:30 PM on 10/1/08)
- Total volume = 60,545 gallons

Please contact Mr. George Collentine of Chemtura at (203) 573-2825 or me if you have any questions or require additional information.

Sincerely,

Vincent P. Shea, P.E.  
Senior Engineer

cc: Mr. George Collentine, Chemtura  
Passaic Valley Sewerage Commissioners  
File  
enclosures



## Analytical Results Summary

Client ID: **Sys\_Dis\_090308**  
 Site: Chemtura Newark

Lab Sample No: **947908**  
 Lab Job No: Y964

Date Sampled: 09/03/08  
 Date Received: 09/03/08  
 Date Analyzed: 09/09/08  
 GC Column: Rtx-624  
 Instrument ID: VOAMS1.i  
 Lab File ID: a28530.d

Matrix: WATER  
 Level: LOW  
 Purge Volume: 5.0 ml  
 Dilution Factor: 100.0

**VOLATILE ORGANICS - GC/MS**  
**METHOD 624**

| <u>Parameter</u>          | <u>Analytical Result</u><br><u>Units: ug/l</u> | <u>Method Detection</u><br><u>Limit</u><br><u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane             | ND   | 44  |
| Bromomethane              | ND   | 44  |
| Vinyl Chloride            | ND   | 24  |
| Chloroethane              | ND   | 43  |
| Methylene Chloride        | ND   | 40  |
| Trichlorofluoromethane    | ND   | 37  |
| 1,1-Dichloroethene        | ND   | 46  |
| 1,1-Dichloroethane        | ND   | 26  |
| trans-1,2-Dichloroethene  | ND   | 39  |
| cis-1,2-Dichloroethene    | ND   | 28  |
| Chloroform                | ND   | 20  |
| 1,2-Dichloroethane        | ND   | 27  |
| 1,1,1-Trichloroethane     | ND   | 38  |
| Carbon Tetrachloride      | ND   | 34  |
| Bromodichloromethane      | ND   | 25  |
| 1,2-Dichloropropane       | ND   | 49  |
| cis-1,3-Dichloropropene   | ND   | 13  |
| Trichloroethene           | ND   | 36  |
| Dibromochloromethane      | ND   | 27  |
| 1,1,2-Trichloroethane     | ND   | 22  |
| Benzene                   | 59   | 24  |
| trans-1,3-Dichloropropene | ND   | 16  |
| 2-Chloroethyl Vinyl Ether | ND   | 25  |
| Bromoform                 | ND   | 21  |
| Tetrachloroethene         | ND   | 42  |
| 1,1,2,2-Tetrachloroethane | ND   | 35  |
| Toluene                   | 36   | 30  |
| Chlorobenzene             | 20000  | 25  |
| Ethylbenzene              | ND   | 41  |
| Xylene (Total)            | ND   | 40  |



Client ID: Sys Dis 090308  
Site: Chemtura Newark

Lab Sample No: 947908  
Lab Job No: Y964

Date Sampled: 09/03/08  
Date Received: 09/03/08  
Date Analyzed: 09/09/08  
GC Column: Rtx-624  
Instrument ID: VOAMS1.i  
Lab File ID: a28530.d

Matrix: WATER  
Level: LOW  
Purge Volume: 5.0 ml  
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS  
TENTATIVELY IDENTIFIED COMPOUNDS  
METHOD 624

| COMPOUND NAME                 | RT    | EST. CONC.<br>ug/l | Q     |
|-------------------------------|-------|--------------------|-------|
| =====                         | ===== | =====              | ===== |
| 1. Benzene, 1,4-dichloro-     | 9.43  | 480                |       |
| 2. Benzene, 1,2-dichloro-     | 9.68  | 1700               |       |
| 3.                            |       |                    |       |
| 4.                            |       |                    |       |
| 5.                            |       |                    |       |
| 6.                            |       |                    |       |
| 7.                            |       |                    |       |
| 8.                            |       |                    |       |
| 9.                            |       |                    |       |
| 10.                           |       |                    |       |
| 11.                           |       |                    |       |
| 12.                           |       |                    |       |
| 13.                           |       |                    |       |
| 14.                           |       |                    |       |
| 15.                           |       |                    |       |
| 16.                           |       |                    |       |
| 17.                           |       |                    |       |
| 18.                           |       |                    |       |
| 19.                           |       |                    |       |
| 20.                           |       |                    |       |
| 21.                           |       |                    |       |
| 22.                           |       |                    |       |
| 23.                           |       |                    |       |
| 24.                           |       |                    |       |
| 25.                           |       |                    |       |
| 26.                           |       |                    |       |
| 27.                           |       |                    |       |
| 28.                           |       |                    |       |
| 29.                           |       |                    |       |
| 30.                           |       |                    |       |
| TOTAL ESTIMATED CONCENTRATION |       | 2180               |       |

Client ID: **Sys\_Dis\_090308**  
Site: Chemtura Newark

Lab Sample No: **947908**  
Lab Job No: Y964

Date Sampled: 09/03/08  
Date Received: 09/03/08  
Date Extracted: 09/04/08  
Date Analyzed: 09/11/08  
GC Column: DB-5  
Instrument ID: BNAMS7.i  
Lab File ID: 141260.d

Matrix: WATER  
Level: LOW  
Sample Volume: 950 ml  
Extract Final Volume: 2.0 ml  
Dilution Factor: 200.0

**SEMI-VOLATILE ORGANICS - GC/MS**  
**METHOD 625**

| <u>Parameter</u>           | <u>Analytical Result</u><br><u>Units: ug/l</u> | <u>Method Detection</u><br><u>Limit</u><br><u>Units: ug/l</u> |
|----------------------------|--|---|
| Phenol                     | ND   | 130   |
| 2-Chlorophenol             | ND   | 230   |
| 2-Nitrophenol              | ND   | 330   |
| 2,4-Dimethylphenol         | ND   | 420   |
| 2,4-Dichlorophenol         | ND   | 300   |
| 4-Chloro-3-methylphenol    | ND   | 340   |
| 2,4,6-Trichlorophenol      | ND   | 460   |
| 2,4-Dinitrophenol          | ND   | 180   |
| 4-Nitrophenol              | ND   | 180   |
| 4,6-Dinitro-2-methylphenol | ND   | 260   |
| Pentachlorophenol          | ND   | 440   |

Client ID: Sys\_Dis\_090308  
Site: Chemtura Newark

Lab Sample No: 947908  
Lab Job No: Y964

Date Sampled: 09/03/08  
Date Received: 09/03/08  
Date Extracted: 09/04/08  
Date Analyzed: 09/11/08  
GC Column: DB-5  
Instrument ID: BNAMS7.i  
Lab File ID: 141260.d

Matrix: WATER  
Level: LOW  
Sample Volume: 950 ml  
Extract Final Volume: 2.0 ml  
Dilution Factor: 200.0

SEMI-VOLATILE ORGANICS - GC/MS  
METHOD 625

| <u>Parameter</u>             | <u>Analytical Result</u><br><u>Units: ug/l</u> | <u>Method Detection</u><br><u>Limit</u><br><u>Units: ug/l</u> |
|------------------------------|--|---|
| N-Nitrosodimethylamine       | ND   | 160   |
| bis(2-Chloroethyl) ether     | ND   | 180   |
| 1,3-Dichlorobenzene          | ND   | 200   |
| 1,4-Dichlorobenzene          | 400  | 190   |
| 1,2-Dichlorobenzene          | 1300   | 230   |
| bis(2-chloroisopropyl) ether | ND   | 180   |
| N-Nitroso-di-n-propylamine   | ND   | 160   |
| Hexachloroethane             | ND   | 190   |
| Nitrobenzene                 | 14000  | 200   |
| Isophorone                   | ND   | 200   |
| bis(2-Chloroethoxy) methane  | ND   | 180   |
| 1,2,4-Trichlorobenzene       | ND   | 190   |
| Naphthalene                  | ND   | 44  |
| Hexachlorobutadiene          | ND   | 130   |
| Hexachlorocyclopentadiene    | ND   | 130   |
| 2-Chloronaphthalene          | ND   | 220   |
| Dimethylphthalate            | ND   | 230   |
| Acenaphthylene               | ND   | 25  |
| 2,6-Dinitrotoluene           | ND   | 270   |
| Acenaphthene                 | ND   | 27  |
| 2,4-Dinitrotoluene           | ND   | 240   |
| Diethylphthalate             | ND   | 160   |
| 4-Chlorophenyl-phenylether   | ND   | 220   |
| Fluorene                     | ND   | 34  |
| N-Nitrosodiphenylamine       | ND   | 220   |
| 4-Bromophenyl-phenylether    | ND   | 250   |
| Hexachlorobenzene            | ND   | 67  |
| Phenanthrene                 | ND   | 17  |
| Anthracene                   | ND   | 25  |
| Di-n-butylphthalate          | ND   | 210   |
| Fluoranthene                 | ND   | 27  |
| Pyrene                       | ND   | 27  |
| Benzidine                    | ND   | 1500  |
| Butylbenzylphthalate         | ND   | 220   |

Client ID: **Sys Dis 090308**  
Site: Chemtura Newark

Lab Sample No: **947908**  
Lab Job No: Y964

Date Sampled: 09/03/08  
Date Received: 09/03/08  
Date Extracted: 09/04/08  
Date Analyzed: 09/11/08  
GC Column: DB-5  
Instrument ID: BNAMS7.i  
Lab File ID: 141260.d

Matrix: WATER  
Level: LOW  
Sample Volume: 950 ml  
Extract Final Volume: 2.0 ml  
Dilution Factor: 200.0

**SEMI-VOLATILE ORGANICS - GC/MS**  
**METHOD 625**

| <u>Parameter</u>           | <u>Analytical Result</u><br><u>Units: ug/l</u> | <u>Method Detection</u><br><u>Limit</u><br><u>Units: ug/l</u> |
|----------------------------|--|---|
| 3,3'-Dichlorobenzidine     | ND   | 1000  |
| Benzo(a)anthracene         | ND   | 10  |
| Chrysene                   | ND   | 40  |
| bis(2-Ethylhexyl)phthalate | ND   | 220   |
| Di-n-octylphthalate        | ND   | 210   |
| Benzo(b)fluoranthene       | ND   | 27  |
| Benzo(k)fluoranthene       | ND   | 19  |
| Benzo(a)pyrene             | ND   | 13  |
| Indeno(1,2,3-cd)pyrene     | ND   | 17  |
| Dibenz(a,h)anthracene      | ND   | 21  |
| Benzo(g,h,i)perylene       | ND   | 19  |
| Aniline                    | 18000  | 110   |

Client ID: Sys\_Dis\_090308  
 Site: Chemtura Newark

Lab Sample No: 947908  
 Lab Job No: Y964

Date Sampled: 09/03/08  
 Date Received: 09/03/08  
 Date Extracted: 09/04/08  
 Date Analyzed: 09/11/08  
 GC Column: DB-5  
 Instrument ID: BNAMS7.i  
 Lab File ID: 141260.d

Matrix: WATER  
 Level: LOW  
 Sample Volume: 950 ml  
 Extract Final Volume: 2.0 ml  
 Dilution Factor: 200.0

SEMI-VOLATILE ORGANICS - GC/MS  
 TENTATIVELY IDENTIFIED COMPOUNDS  
 METHOD 625

| COMPOUND NAME                 | RT    | EST. CONC.<br>ug/l | Q     |
|-------------------------------|-------|--------------------|-------|
| =====                         | ===== | =====              | ===== |
| 1. Benzene, chloro-           | 4.62  | 15000              |       |
| 2.                            |       |                    |       |
| 3.                            |       |                    |       |
| 4.                            |       |                    |       |
| 5.                            |       |                    |       |
| 6.                            |       |                    |       |
| 7.                            |       |                    |       |
| 8.                            |       |                    |       |
| 9.                            |       |                    |       |
| 10.                           |       |                    |       |
| 11.                           |       |                    |       |
| 12.                           |       |                    |       |
| 13.                           |       |                    |       |
| 14.                           |       |                    |       |
| 15.                           |       |                    |       |
| 16.                           |       |                    |       |
| 17.                           |       |                    |       |
| 18.                           |       |                    |       |
| 19.                           |       |                    |       |
| 20.                           |       |                    |       |
| 21.                           |       |                    |       |
| 22.                           |       |                    |       |
| 23.                           |       |                    |       |
| 24.                           |       |                    |       |
| 25.                           |       |                    |       |
| 26.                           |       |                    |       |
| 27.                           |       |                    |       |
| 28.                           |       |                    |       |
| 29.                           |       |                    |       |
| 30.                           |       |                    |       |
| TOTAL ESTIMATED CONCENTRATION |       | 15000              |       |

Client ID: Sys Dis 090308  
Site: Chemtura Newark

Lab Sample No: 947908  
Lab Job No: Y964

Date Sampled: 09/03/08  
Date Received: 09/03/08

Matrix: WATER  
Level: LOW

## METALS ANALYSIS

| <u>Analyte</u> | <u>Analytical<br/>Result<br/>Units: ug/l</u> | <u>Instrument<br/>Detection<br/>Limit</u> | <u>Qual</u> | <u>M</u> |
|----------------|--|---|-------------|----------|
| Cadmium        | ND   | 0.40                                      |             | P        |
| Copper         | ND   | 3.7                                       |             | P        |
| Lead           | ND   | 2.7                                       |             | P        |
| Mercury        | ND   | 0.10                                      |             | CV       |
| Nickel         | ND   | 2.4                                       |             | P        |
| Zinc           | 28.4   | 5.8                                       | B           | P        |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)  
M Column - Method Code (See Section 2 of Report)



Laboratory Chronicles

INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
TestAmerica Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: Y964

Site: Chemtura Newark

Client: ERM

VOAMS

WATER - 624

| Lab<br>Sample ID | Date<br>Sampled | Date<br>Received | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|-------------|
| 947908           | 9/3/2008        | 9/3/2008         |                     |                      | 9/9/2008         | Del Polito, Vita  | 0539        |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |

INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
TestAmerica Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: Y964

Site: Chemtura Newark

Client: ERM

BNAMS

WATER - 625

| Lab<br>Sample ID | Date<br>Sampled | Date<br>Received | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|-------------|
| 947908           | 9/3/2008        | 9/3/2008         | 9/4/2008            | Huertas, Jamie       | 9/11/2008        | Asfaw, Abebaye    | 6585        |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |

**INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
TestAmerica Edison**

777 New Durham Road, Edison, New Jersey  
08817

|                           |                                |
|---------------------------|--------------------------------|
| Job No: <u>Y964</u>       | Site: <u>Chemtura Newark</u>   |
| Client: <u>ERM</u>        | Date Sampled: <u>9/3/2008</u>  |
| Sample No.: <u>947908</u> | Date Received: <u>9/3/2008</u> |
|                           | Matrix: <u>WATER</u>           |

**METALS**

| Analytic<br>Parameter | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|-----------------------|---------------------|----------------------|------------------|-------------------|-------------|
| MERCURY               | 9/8/2008            | Sanagavarapu, Suguna | 9/8/2008         | Sheikh, Razia     | 25123       |
| CADMIUM               | 9/8/2008            | Yang, Qin            | 9/9/2008         | Chang, Churnder   | 25123       |
| COPPER                | 9/8/2008            | Yang, Qin            | 9/9/2008         | Chang, Churnder   | 25123       |
| LEAD                  | 9/8/2008            | Yang, Qin            | 9/9/2008         | Chang, Churnder   | 25123       |
| NICKEL                | 9/8/2008            | Yang, Qin            | 9/9/2008         | Chang, Churnder   | 25123       |
| ZINC                  | 9/8/2008            | Yang, Qin            | 9/10/2008        | Chang, Churnder   | 25123       |
|                       |                     |                      |                  |                   |             |
|                       |                     |                      |                  |                   |             |
|                       |                     |                      |                  |                   |             |

**INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
TestAmerica Edison**

777 New Durham Road, Edison, New Jersey  
08817

Job No: Y964

Site: Chemtura Newark

Client: ERM

**WET CHEM**

**BOD**

| Lab<br>Sample ID | Date<br>Sampled | Date<br>Received | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|-------------|
| 947908           | 9/3/2008        | 9/03/2008        |                     |                      | 9/4/2008         | Staib, Patricia   | 1754        |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |

**TOTAL SUSP SOLIDS**

| Lab<br>Sample ID | Date<br>Sampled | Date<br>Received | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|-------------|
| 947908           | 9/3/2008        | 9/03/2008        |                     |                      | 9/4/2008         | Johnson, Timothy  | 3700        |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |

INTERNAL CUSTODY RECORD  
AND  
LABORATORY CHRONICLE  
TestAmerica Edison

777 New Durham Road, Edison, New Jersey  
08817

Job No: Y964

Site: Chemtura Newark

Client: ERM

SUB

SGT 1664, Buffalo sent to TestAmerica Buffalo

| Lab<br>Sample ID | Date<br>Sampled | Date<br>Received | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|-------------|
| 947908           | 9/3/2008        | 9/03/2008        |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |

HEM 1664, Buffalo sent to TestAmerica Buffalo

| Lab<br>Sample ID | Date<br>Sampled | Date<br>Received | Preparation<br>Date | Technician's<br>Name | Analysis<br>Date | Analyst's<br>Name | QA<br>Batch |
|------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|-------------|
| 947908           | 9/3/2008        | 9/03/2008        |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |
|                  |                 |                  |                     |                      |                  |                   |             |



## Methodology Review

Analytical Methodology Summary

## Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B.

## Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

## GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

## Organochlorine Pesticides, PCBs &amp; Herbicides:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for Organochlorine Pesticides and Method 8082 for PCBs. Organochlorine Herbicides are analyzed using SW846 Method 8151A.

## Total Petroleum Hydrocarbons:

Unless otherwise specified, water and solid samples are analyzed for Total Petroleum Hydrocarbons using NJDEP Method OQA-QAM-025, "Quantitation of Semi-Volatile Petroleum Products in Water, Soil, Sediment and Sludge".

## Diesel Range Organics (DRO) and Gasoline Range Organics (GRO):

Soil and water samples are analyzed for DRO and GRO as the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8015B (Non-Halogenated Organics Using GC/FID).

#### Metals Analysis:

Metals analyses are performed by any of three techniques specified by a Method Code provided on each data report page, as follows:

MS - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)- Mass Spectrometry (MS)

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020) and "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition), as appropriate. Solid samples are prepared and analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition).

Specific method references for ICP analyses are:

Water Matrix - EPA 200.7/SW846 6010B

Solid Matrix - SW846 6010B

The method reference for ICP-MS analysis is:

Non-Potable Water Matrix - EPA 200.8

Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A.

## Cyanide:

Drinking water and wastewater samples are analyzed for cyanide using EPA Method 335. Cyanide is determined in solid samples using SW846 Method 9012A/9012B.

## Phenols:

Water samples are analyzed for total phenols using EPA Method 420.1. Total phenols are determined in water by use of SW846 Methods 9065+9066, as appropriate.

## Hexavalent Chromium

Water samples are analyzed for hexavalent chromium using SW846 Method 7196A, SW846 Method 7199 or USGS Method I-1232-85. Hexavalent chromium in solid samples is determined using the SW846 Method 3060A preparation followed by analysis via SW846 Method 7196A or 7199.

## Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

|  |   |
|--|---|
| Ignitability                               | Method 1030                                   |
| Corrosivity                                | Water pH Method 9040B<br>Soil pH Method 9045C |
| Toxicity Characteristic Leaching Procedure | Method 1311                                   |
| Synthetic Precipitation Leaching Procedure | Method 1312                                   |

## Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 18th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
  - \* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

- ND - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
- E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.
- M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.
- N - The spiked sample recovery is not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- \* - Duplicate Analysis is not within control limits.
- W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.
- + - Correlation coefficient for MSA is less than 0.995.



INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)(continued)

## M Column - Method Qualifiers

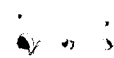
P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

MS - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)-  
Mass Spectrometry (MS).



## Non-Conformance Summary



## Nonconformance Summary

TestAmerica Edison Job # : Y964

**Client:** ERM

**Date:** 9/18/2008

### Sample Receipt:

Cooler temperature at receipt was outside the acceptable range of 0-6 deg C. Cooler temperature was 17 degrees C. Ice was present. Insufficient time to cool down.

### Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

### Base/Neutral and/or Acid Extractable Organics (GC/MS):

Sample#947908: surrogate recoveries diluted out.

### Metals:

All data conforms with method requirements.

### Wet Chemistry:

All data conforms with method requirements.

### Sub Work:

See Sublab Case Narrative.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Director or their designee, as verified by the following signature.



Joy Kelly  
Project Manager

Environmental  
Resources  
Management

Princeton Crossroads Corp.  
Center  
250 Phillips Blvd., Ste. 280  
Ewing, NJ 08618  
(609) 895-0050  
(609) 895-0111 (fax)  
<http://www.erm.com>



20 October 2008

Mr. Andy Caltagirone  
Manager of Industrial & Pollution Control  
Passaic Valley Sewerage Commissioners  
600 Wilson Avenue  
Newark, NJ 07105

RE: September 2008 Monitoring Reports  
Crompton Colors, Incorporated - Newark, NJ  
Customer ID 20630008-1  
Discharge Begun 17 July 2007

Dear Mr. Caltagirone:

On behalf of Chemtura Corporation (Chemtura), Environmental Resources Management (ERM) has prepared the attached Pretreatment Monitoring Report (PVSC Form MR-1) and User Charge Self Monitoring Report (PVSC Form MR-2). These forms have been executed by Mr. George Collentine of Chemtura Corporation, the corporate successor to Crompton.

The groundwater recovery system has been in continuous operation since 23 April 2008. The total volume discharged to the sanitary sewer during the month of September was calculated as follows:

- Starting totalizer reading = 259,813 gallons (12:40 PM on 9/3/08)
- Final totalizer reading = 320,358 gallons (3:30 PM on 10/1/08)
- Total volume = 60,545 gallons

In accordance with the December 2007 *NJPDES Monitoring Report Form Reference Manual*, the total toxic organic (TTO) data has been reported as a "CODE=E", with the laboratory analytical data package attached for reference.

Mr. Andy Caltagirone  
0057054.05  
20 October 2008  
Page 2

Environmental  
Resources  
Management

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Please contact Mr. George Collentine of Chemtura at (203) 573-2825 or me if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'V. Shea', with a long horizontal flourish extending to the right.

Vincent P. Shea, P.E.  
*Senior Engineer*

cc: Mr. George Collentine, Chemtura  
File

enclosures



Sep 19, 2008

ERM  
250 Phillips Blvd.  
Suite 280  
Ewing, NJ 08618

Attention: Mr. Vincent Shea

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road  
Edison, NJ 08817  
Tel 732 549 3900  
Fax 732 549 3679  
www.testamericainc.com  
Federal ID #:23-29199996

Laboratory Results  
Job No. Y964 - Chemtura Newark

Dear Mr. Shea:

Enclosed are the results you requested for the following sample(s) received at our laboratory on September 3, 2008.

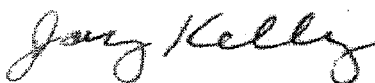
| <u>Lab No.</u> | <u>Client ID</u> | <u>Analysis Required</u>   |
|----------------|------------------|--|
| 947908         | Sys_DIs_090308   | PP VOA+15<br>PP BNA+25<br>Cd<br>Cu<br>Pb<br>Hg<br>Ni<br>Zn<br>TSS<br>BOD<br>SGT 1664, Buffalo<br>HEM 1664, Buffalo |

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TestAmerica Edison has following Laboratory Certifications: New Jersey(12028), New York(11452), Pennsylvania(68-00522), Connecticut(PH-0200), Rhode Island(LAO00132)

If you have any questions, please contact me at (732) 549-3900.

Very Truly Yours,



Joy Kelly  
Project Manager

# Chain of Custody Record

TAL-4124 (1007)

Client

ERM

Address

250 Phillips Blvd, #280

City

Ewing

State

NJ

Zip Code

08618

Project Name and Location (State)

Chemtura Newark (NJ)

Contract/Purchase Order/Quote No.

57054.05

Sample I.D. No. and Description

(Containers for each sample may be combined on one line)

Sys Dis 090308

Date

9/3/08

Time

1310

Containers & Preservatives

Unpres.

H2SO4

HNO3

HCl

NaOH

ZnAc

NaOH

Matrix

Air

Sed.

Soil

Aqueous

X

4

15

10

10

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Project Manager

Vincent Shea

Telephone Number (Area Code)/Fax Number

609 895 0050

Site Contact

Lab Contact

Carrier/Waybill Number

Date

9/3/08

Lab Number

065405

Page

1 of 1

Analysis (Attach list if more space is needed)

Lead

Copper

Cadmium

1664 567/100

TSS

BOD

PPV04+15

PPV04+15

PPV04+15

PPV04+15

PPV04+15

PPV04+15

PPV04+15

PPV04+15

PPV04+15

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PPV04+15

PPV04+15

PPV04+15

PPV04+15

Possible Hazard Identification

☐ Non-Hazard

☐ Flammable

☐ Skin Irritant

☐ Poison B

☐ Unknown

☐ Return To Client

☐ Disposal By Lab

☐ Archive For

Months

(A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)

1. Relinquished By

Man A

Date

9/3/08

Time

1440

2. Relinquished By

Date

Date

Time

Time

3. Relinquished By

Date

Date

Time

Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy